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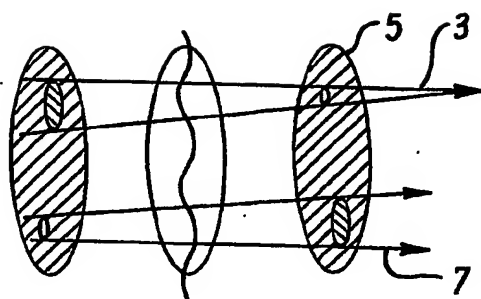


FIG. 1a

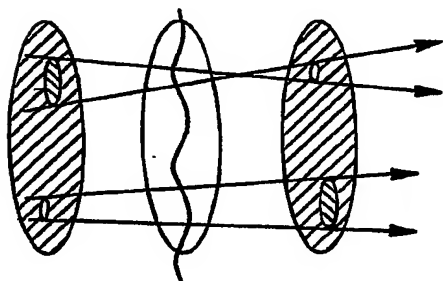


FIG. 1b

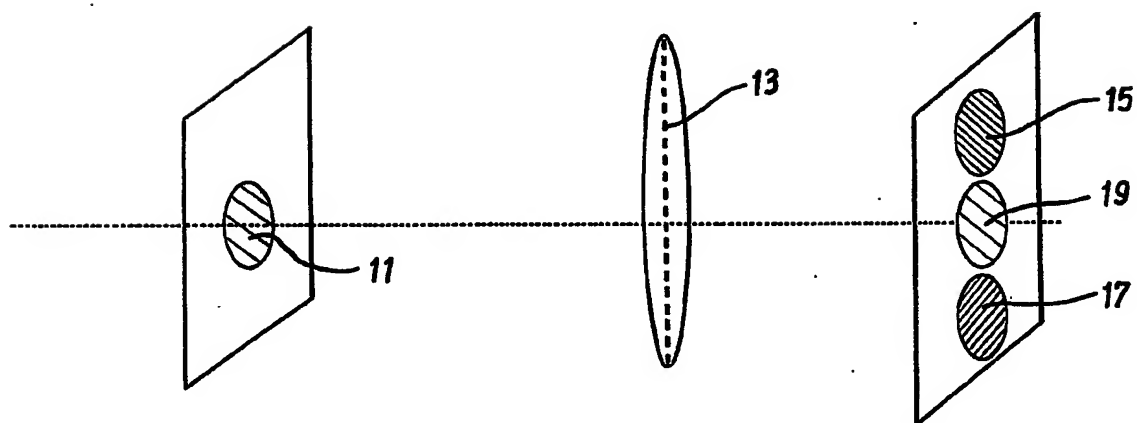
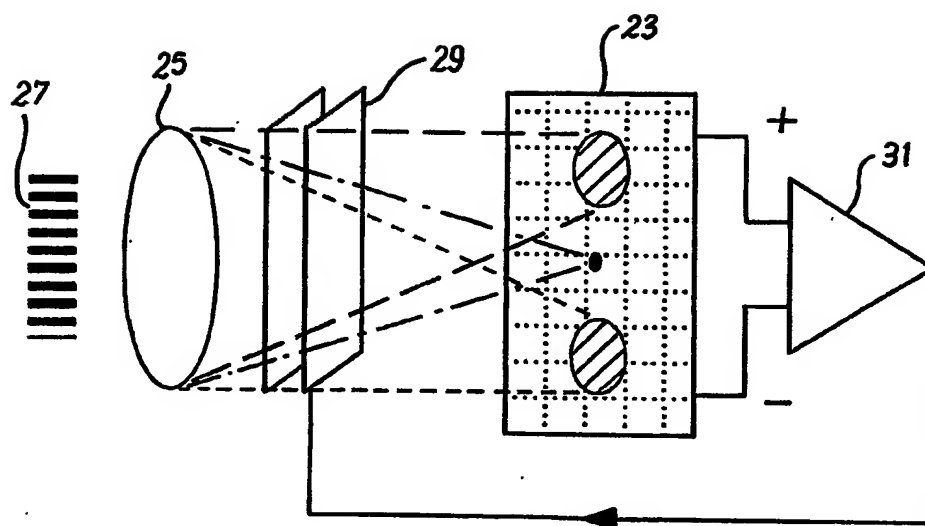


FIG. 2

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FIG. 3

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Original signal phase

Fig. 4a

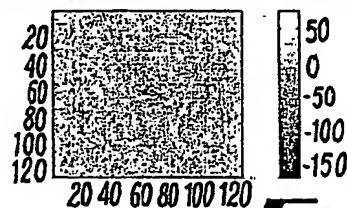
+1 diffraction order intensity

Fig. 4b

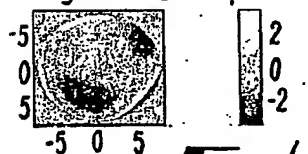
-1 diffraction order intensity

Fig. 4c

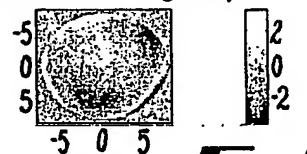
difference between +1 and -1 order intensity

Fig. 4d

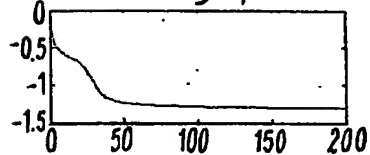
Original signal phase

Fig. 9a

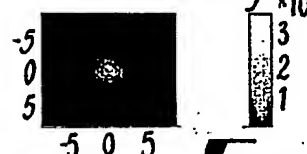
Retrieved signal phase

Fig. 9b

Error graph

Fig. 9c

difference between original phase and retrieval phase

Fig. 9d+1 order intensity $\times 10^4$ Fig. 9e-1 order intensity $\times 10^4$ Fig. 9f

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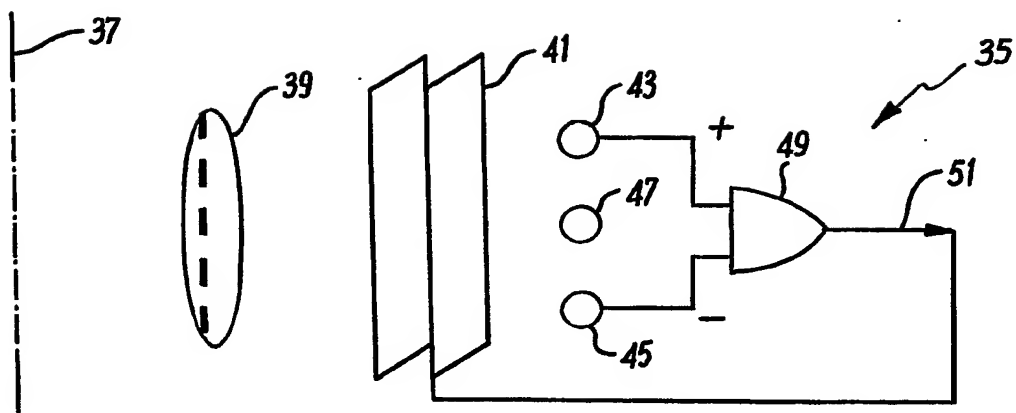


FIG. 5

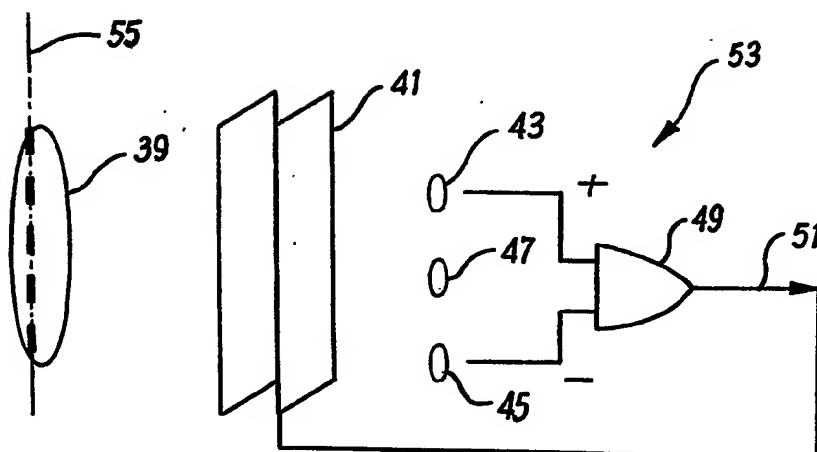
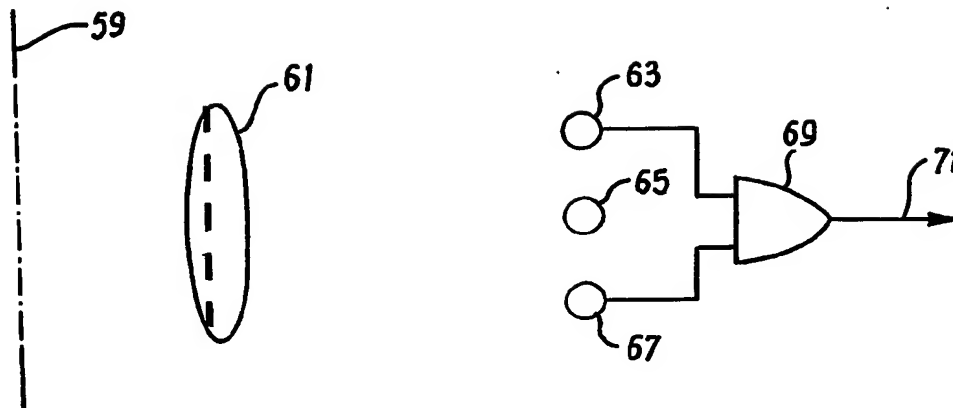
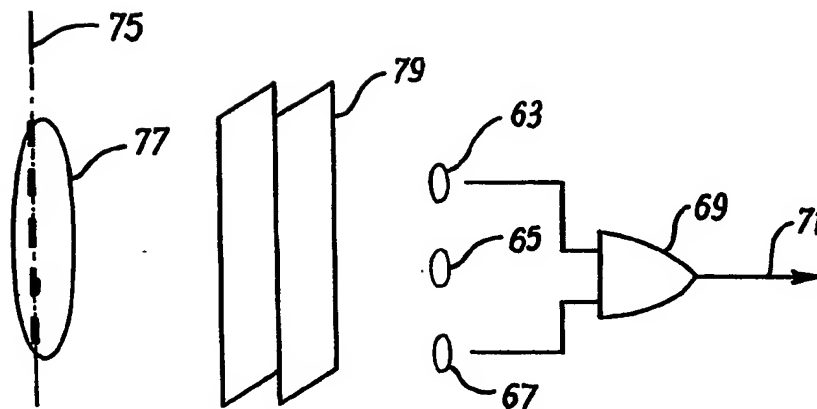
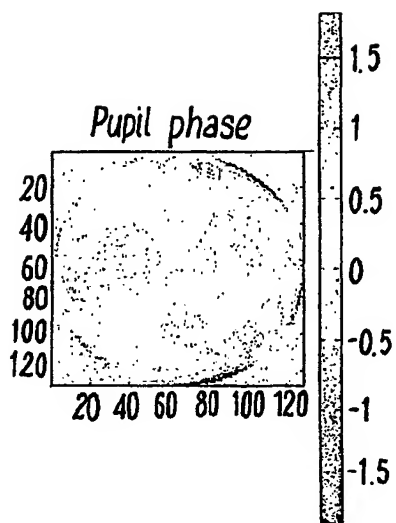
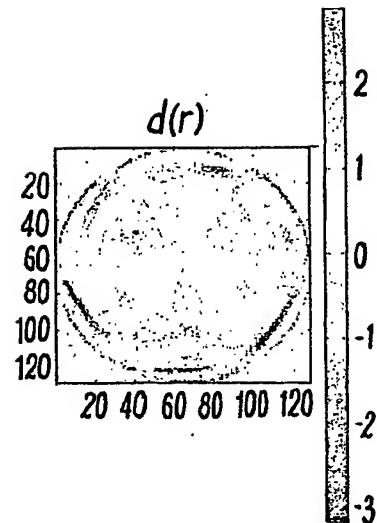
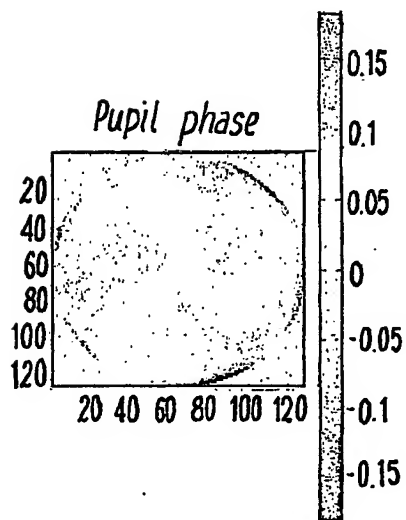
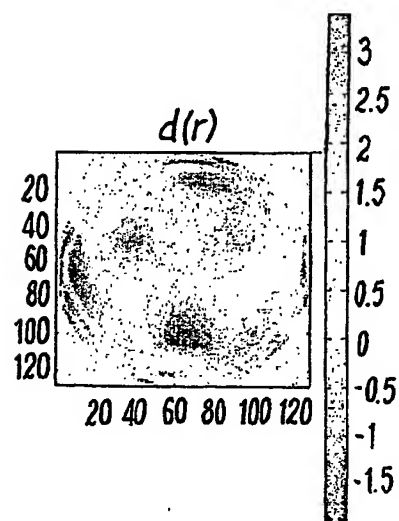


FIG. 6

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**FIG. 7****FIG. 8**

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**FIG. 10(a)(i)****FIG. 10(a)(ii)****FIG. 10(b)(i)****FIG. 10(b)(ii)**

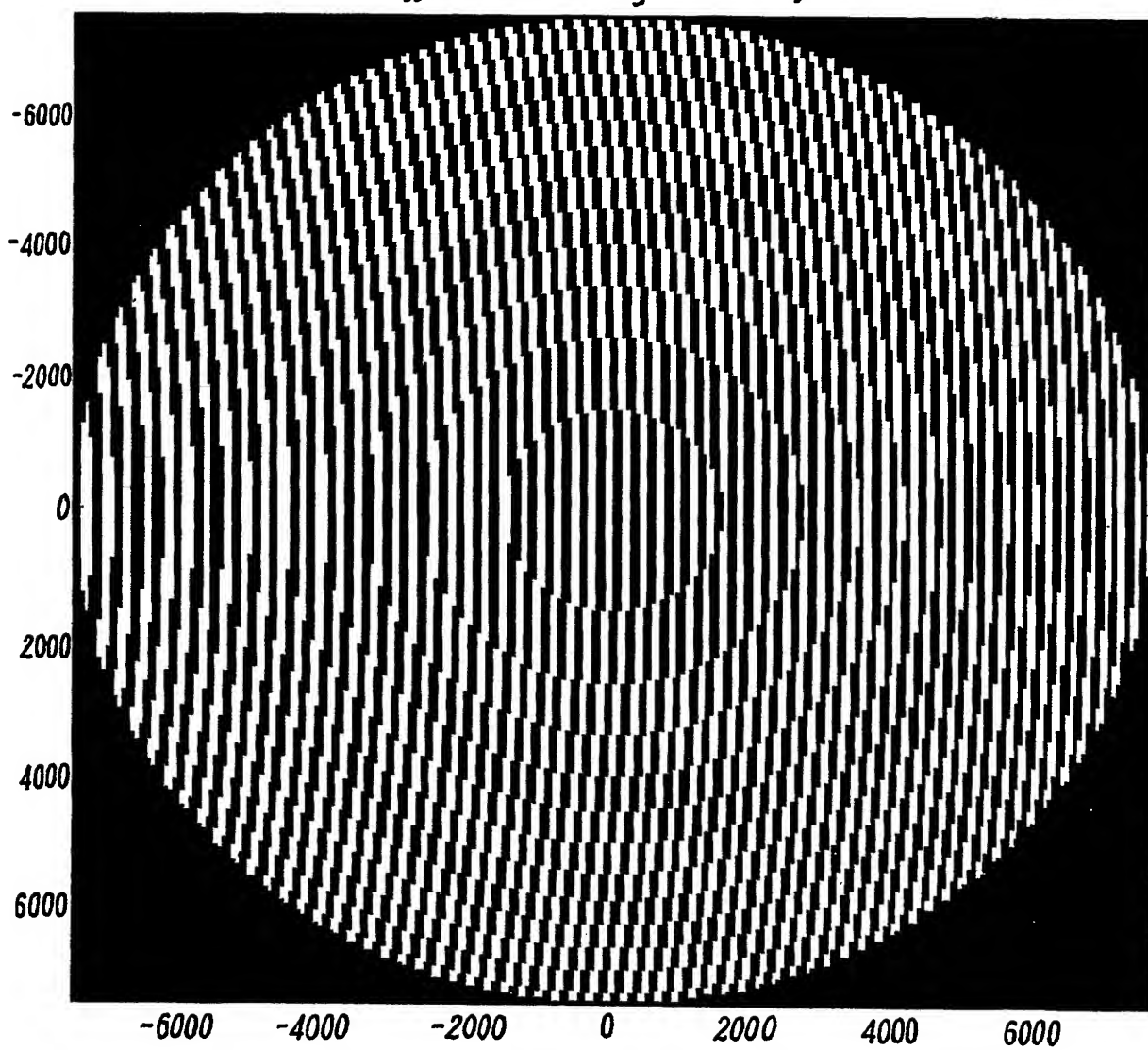
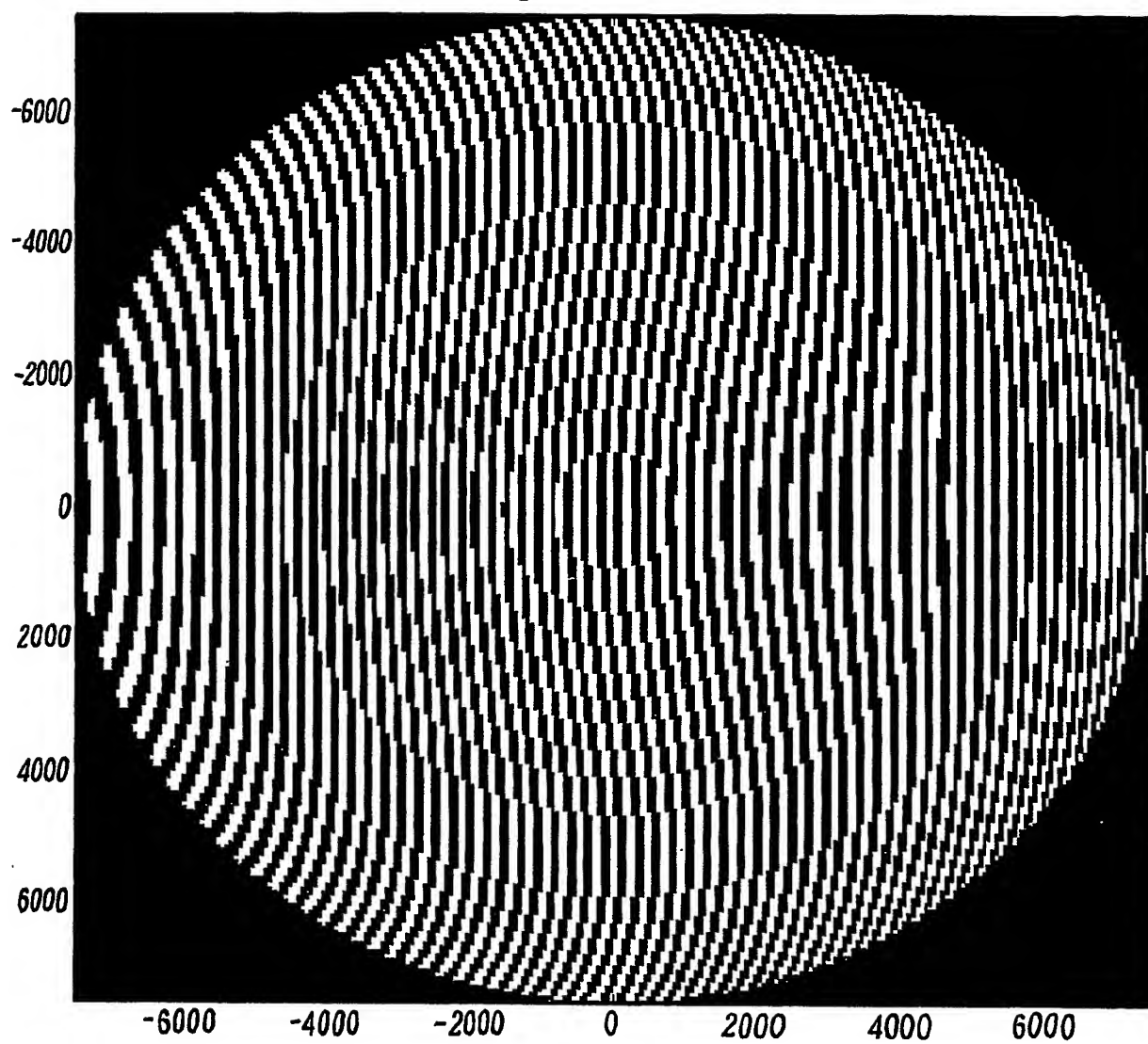
$7/9$ *Diffraction Grating with Defocus*

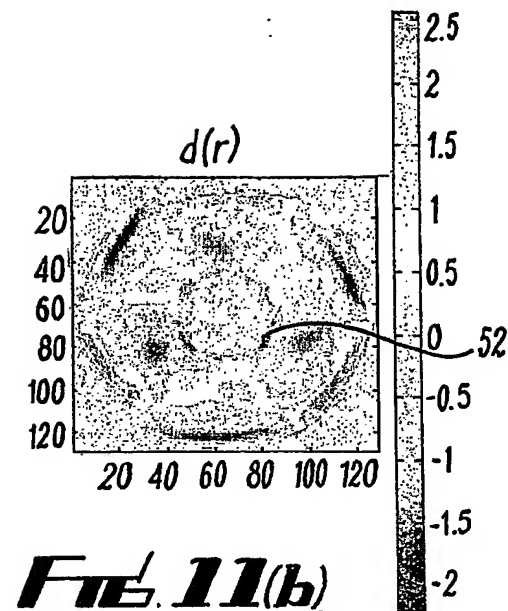
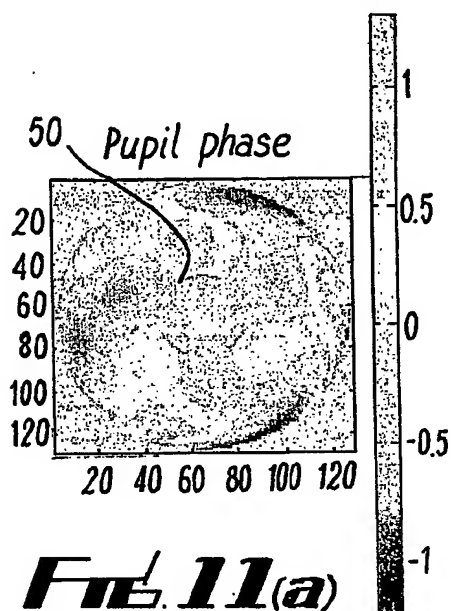
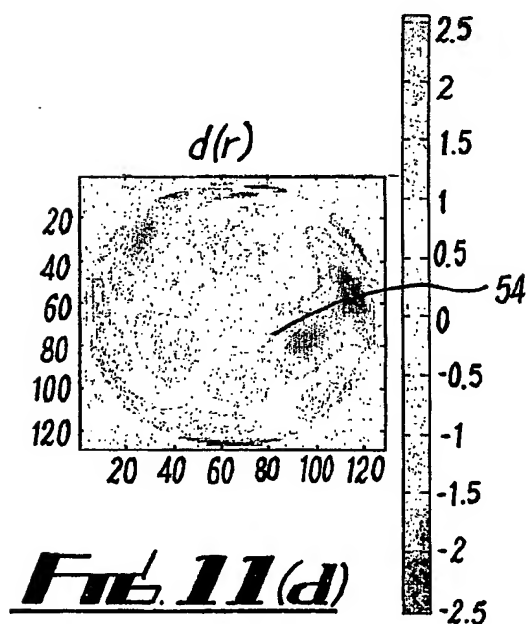
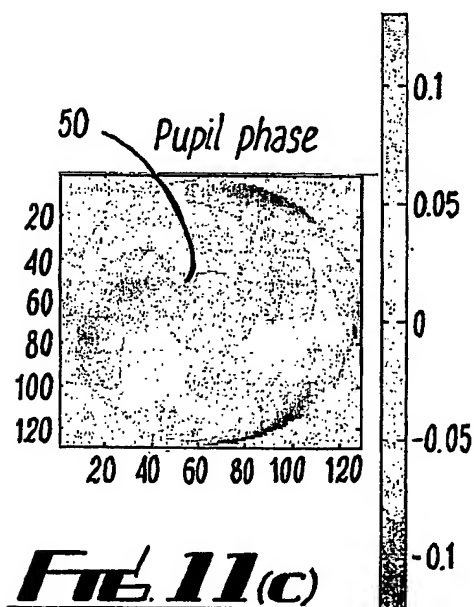
FIG. 10(a)(iii)

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Diffraction Grating with Spherical Aberration**Fig. 10(b)(iii)**

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annular pupils

1) Defocus ($2 \cdot r^2$, circular pupil)Spherical ($6 \cdot r^4$, annular pupil)

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